



Town of Fort Mill

# Pennies 4 Priorities

July 20, 2016

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Planning Director





# General Observations

## General Observations

- **Impacts of rapid regional growth**
  - Increased demand on roadway network
  - Right-of-way acquisition challenges
- **Much of our traffic is pass-through traffic**
  - Rock Hill, Indian Land, Charlotte, Union County (NC)
- **Most major corridors are 2-lane facilities**
  - Dobys Bridge Rd, Fort Mill Pkwy, Springfield Pkwy, Pleasant Rd, Sutton Rd, Spratt St & US 21 Bypass
- **Lack of alternate modes of transportation**
  - No fixed route transit options (bus, rail, etc.)
  - Patchwork sidewalk network (esp. for schools)





# Project Criteria

## Criteria for Identifying Road Projects

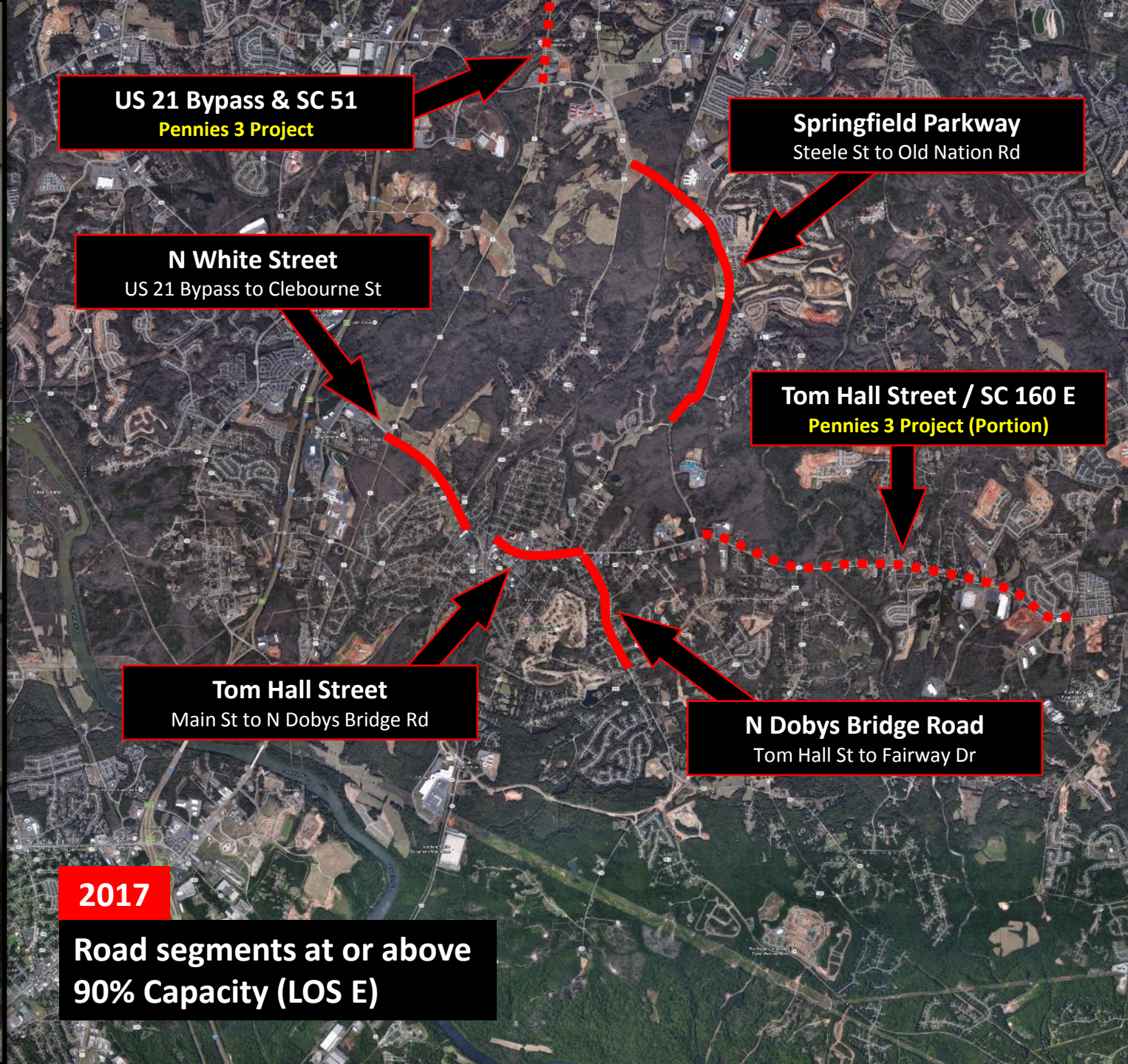
- **Traffic Mitigation**
  - **Identify Existing Road Capacity**
    - TRB Highway Capacity Manual (LOS E)
  - **Determine Current Traffic Volumes**
    - 2013 SCDOT Annual Avg. Daily Traffic (AADT)
  - **Project Future Traffic Volumes**
    - 2033 Metrolina Regional Model
  - **Extrapolate Annual Growth Rates from 2013 vs. 2033**
  - **Apply Growth Rates to 2013 Traffic Counts**
  - **Volume-to-Capacity Analysis:**
    - **When will traffic volumes exceed 90% capacity?**
  - **Present Data in 8-Year Increments**
    - Current (2017) & Horizon (2025 & 2033)







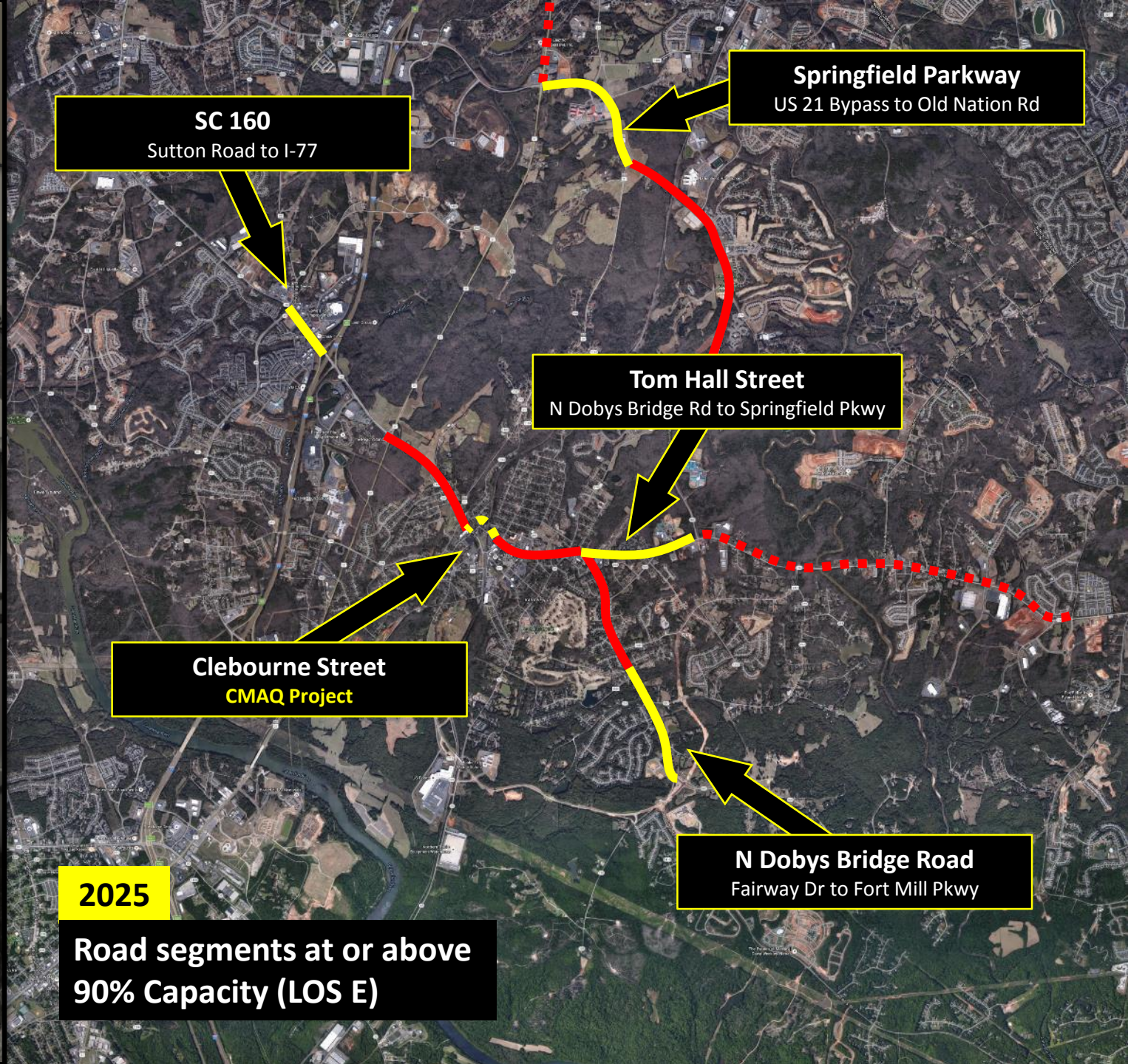
2017
2025
2033
Other







2017
2025
2033
Other







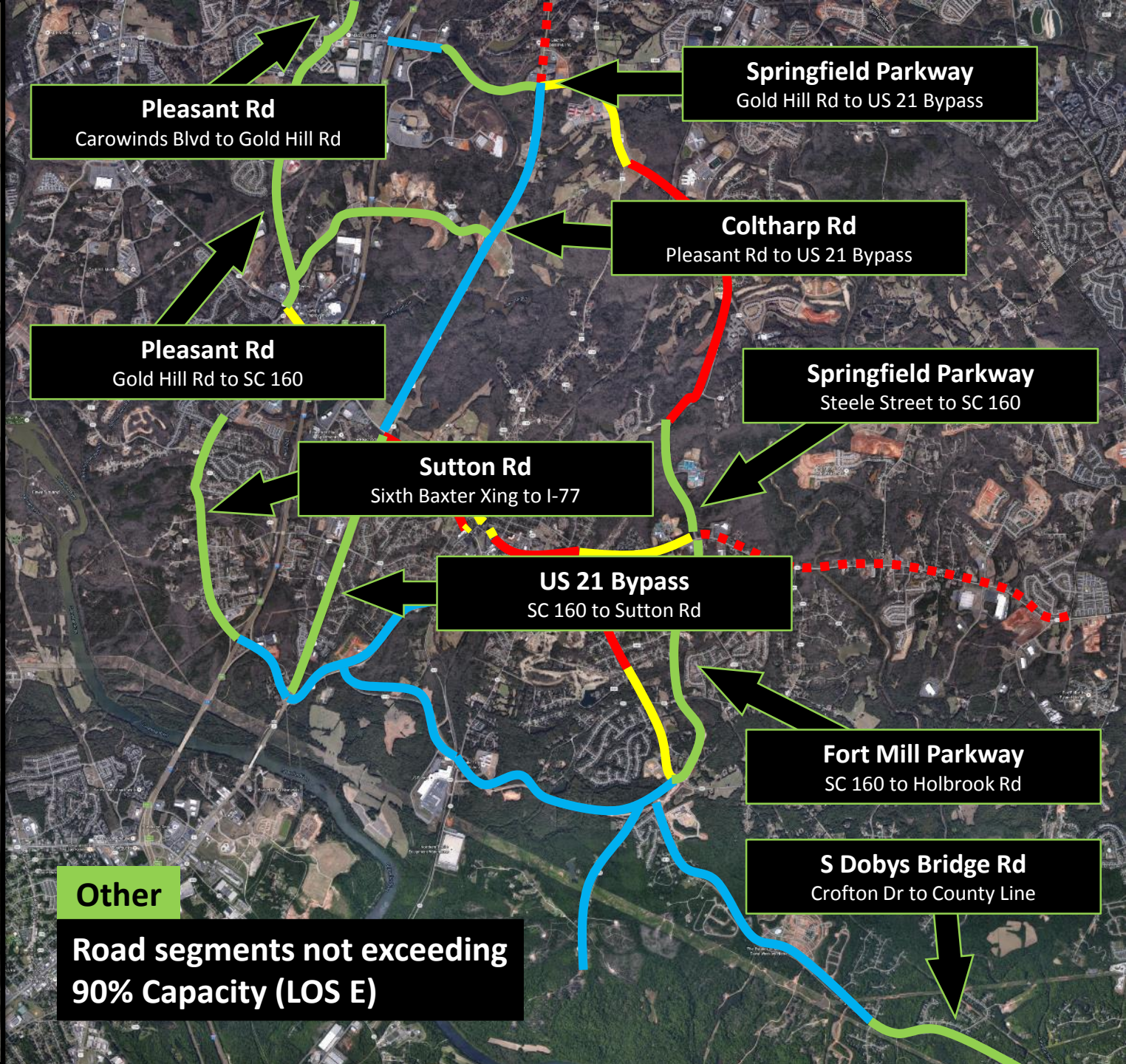
2017
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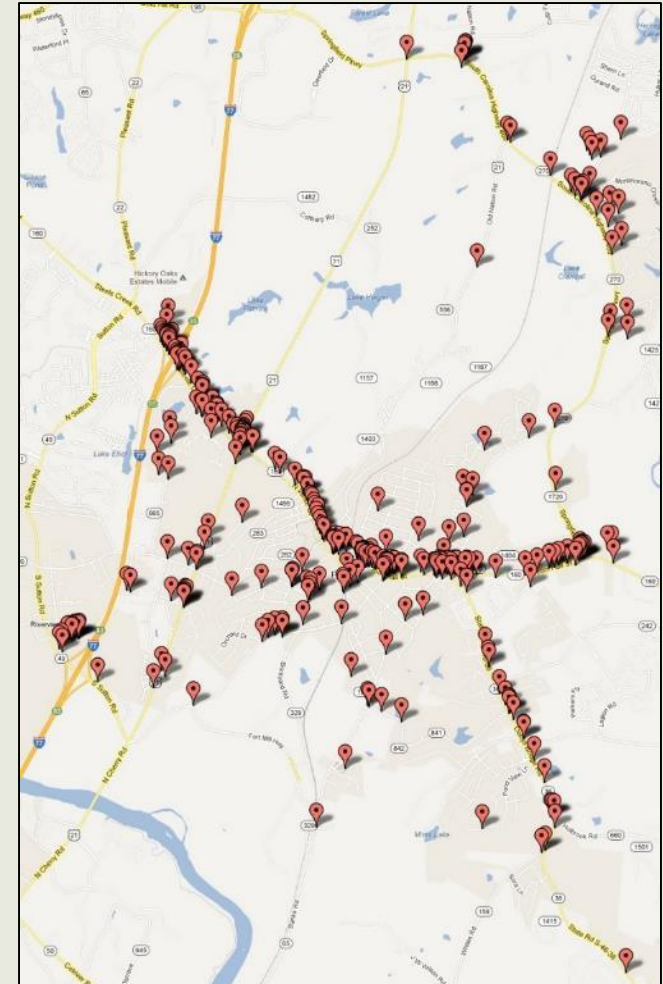




# Project Criteria

## Project Criteria

- **Public Safety**
  - More than 50% (154) of all accidents in the town limits were on the SC 160 corridor
  - Over-reliance on SC Highway 160
- **Project Feasibility**
  - Widening SC 160 in downtown Fort Mill is not feasible
  - Emphasize bypasses and alternate routes







# Project Criteria

## Project Criteria

- **Economic Development**

- Transportation network is critical to job growth and economic development
- Major economic development projects in Fort Mill:
  - Kingsley, CATO, Bradley Park, etc.

- **School Impact**

- Springfield Parkway: 6 existing schools
- Fort Mill Parkway: 3 existing & 3 future schools

- **Project Timing & Connectivity**

- Do opportunities exist to speed up improvements?
- Some transportation improvements are contingent upon others
- Which projects improve regional connectivity?



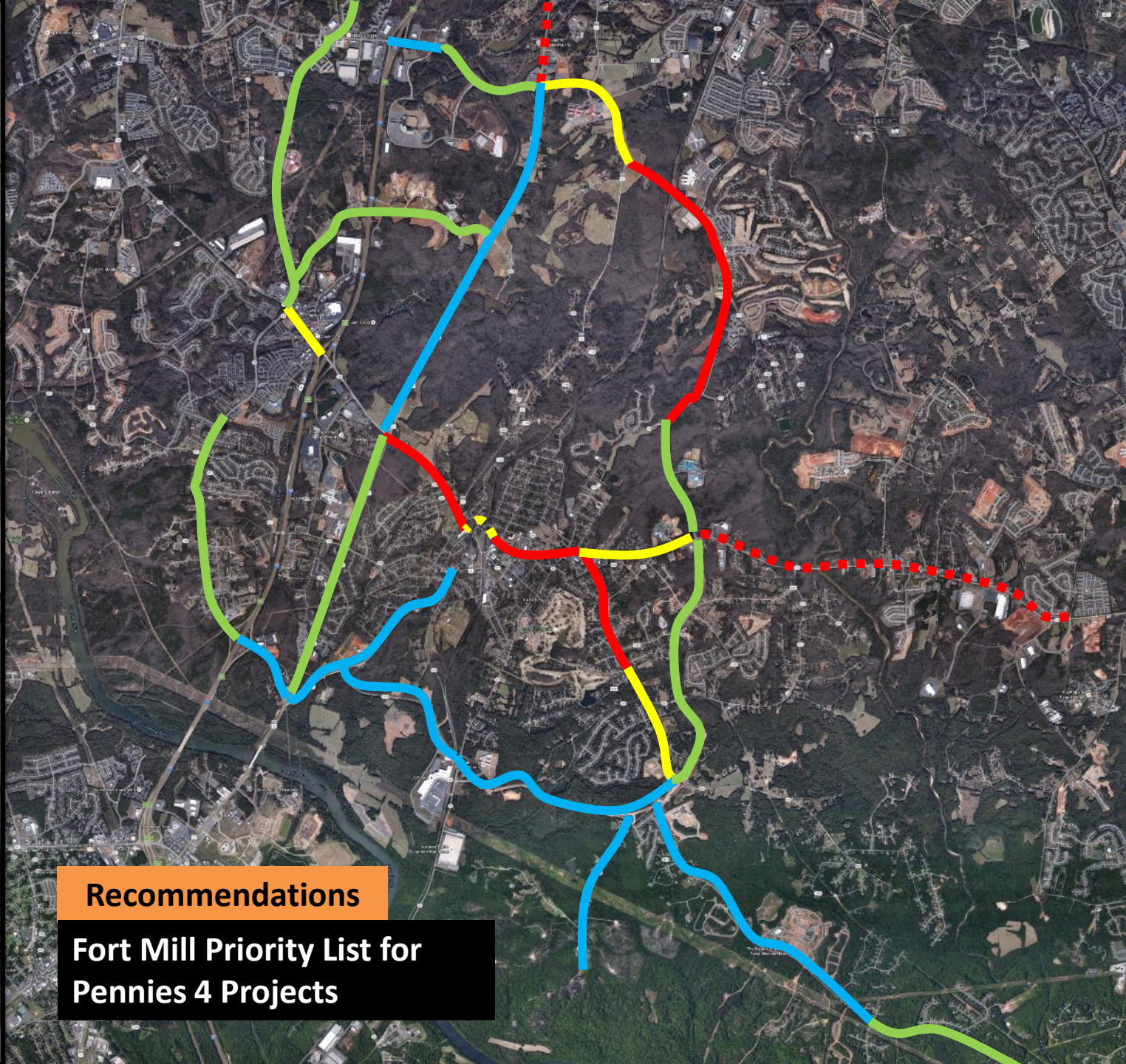




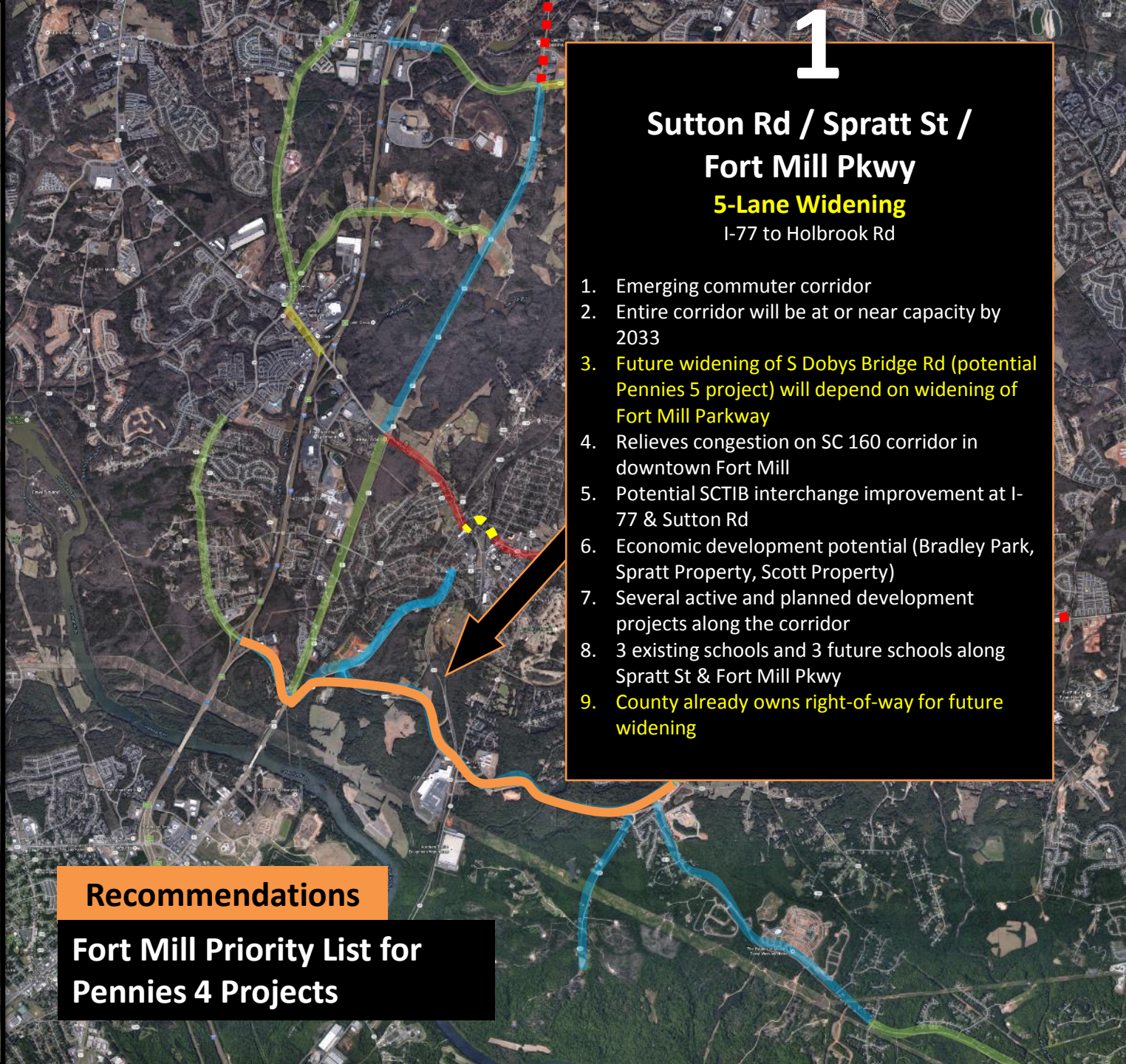
- 2017
- 2025
- 2033
- Other

Recommendations

Fort Mill Priority List for Pennies 4 Projects







# 1

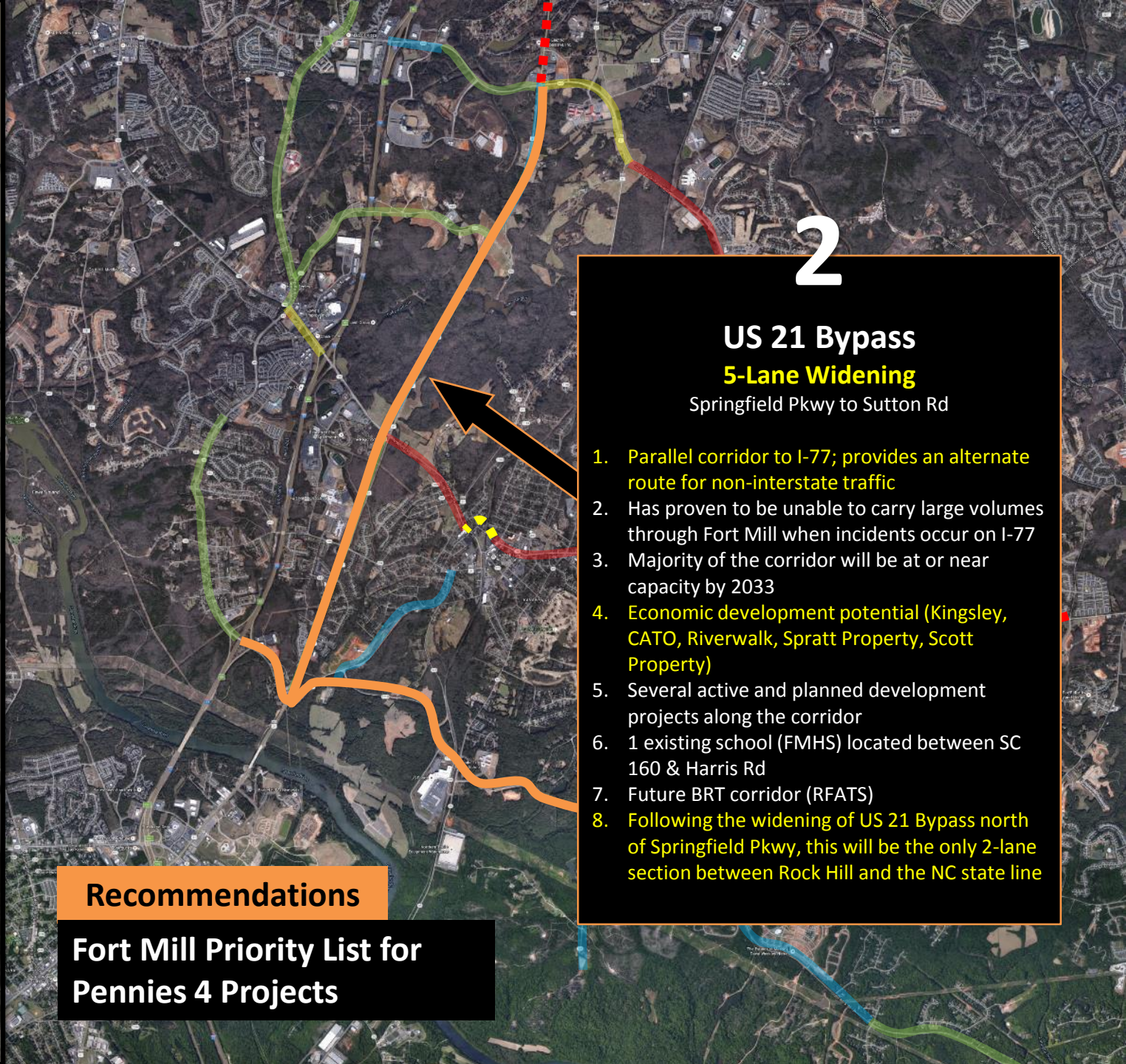
## Sutton Rd / Spratt St / Fort Mill Pkwy **5-Lane Widening** I-77 to Holbrook Rd

1. Emerging commuter corridor
2. Entire corridor will be at or near capacity by 2033
3. **Future widening of S Dobys Bridge Rd (potential Pennies 5 project) will depend on widening of Fort Mill Parkway**
4. Relieves congestion on SC 160 corridor in downtown Fort Mill
5. Potential SCTIB interchange improvement at I-77 & Sutton Rd
6. Economic development potential (Bradley Park, Spratt Property, Scott Property)
7. Several active and planned development projects along the corridor
8. 3 existing schools and 3 future schools along Spratt St & Fort Mill Pkwy
9. **County already owns right-of-way for future widening**

### Recommendations

### Fort Mill Priority List for Pennies 4 Projects





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## US 21 Bypass

### 5-Lane Widening

Springfield Pkwy to Sutton Rd

1. Parallel corridor to I-77; provides an alternate route for non-interstate traffic
2. Has proven to be unable to carry large volumes through Fort Mill when incidents occur on I-77
3. Majority of the corridor will be at or near capacity by 2033
4. Economic development potential (Kingsley, CATO, Riverwalk, Spratt Property, Scott Property)
5. Several active and planned development projects along the corridor
6. 1 existing school (FMHS) located between SC 160 & Harris Rd
7. Future BRT corridor (RFATS)
8. Following the widening of US 21 Bypass north of Springfield Pkwy, this will be the only 2-lane section between Rock Hill and the NC state line

## Recommendations

Fort Mill Priority List for  
Pennies 4 Projects





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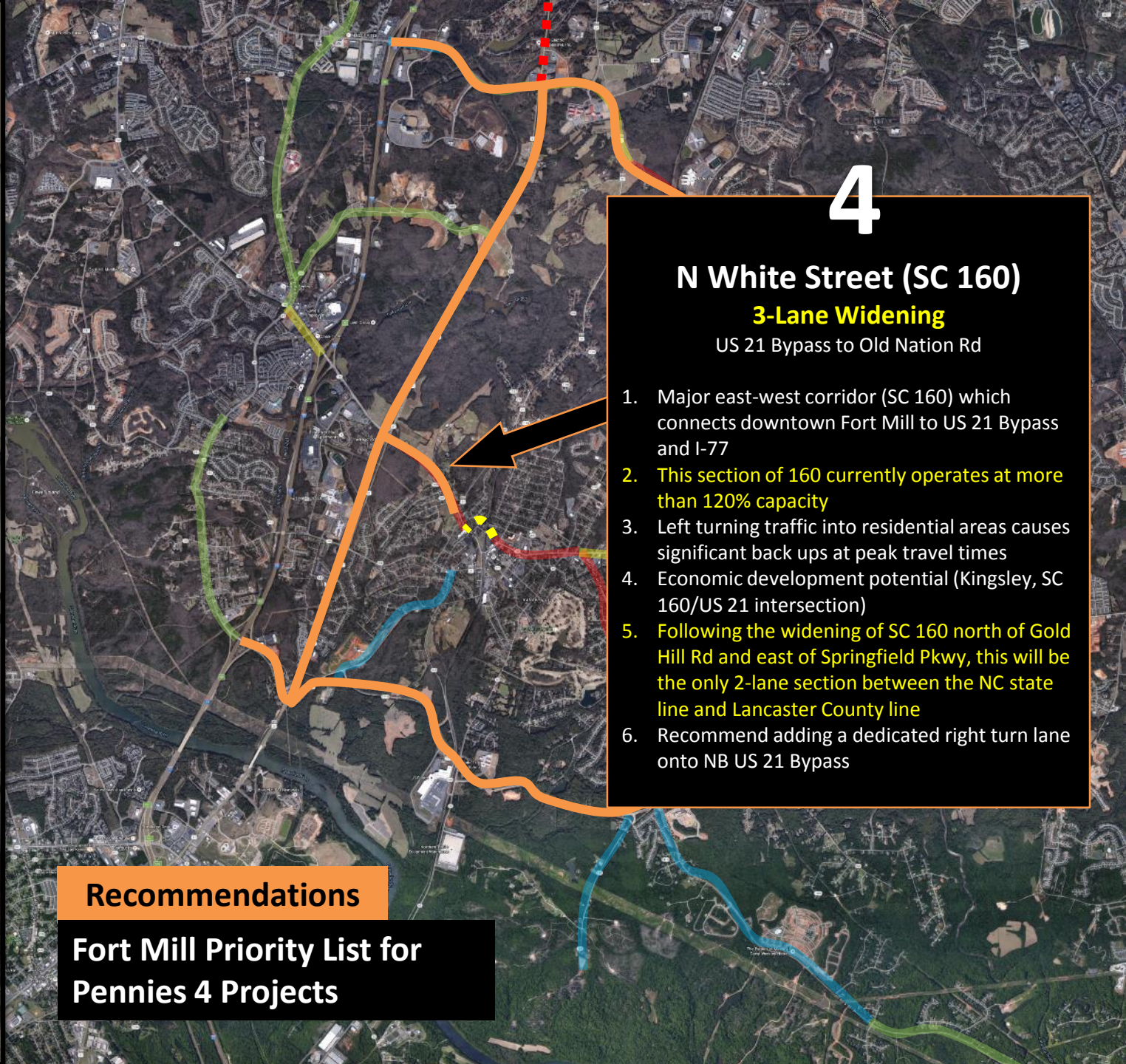
## Springfield Parkway 5-Lane Widening I-77 to SC 160

1. Major commuter corridor
2. Portions at or near capacity in 2017; majority of the corridor at or near capacity by 2025
3. Relieves congestion on SC 160 corridor in downtown Fort Mill
4. Pending interchange improvement at I-77 & Gold Hill Rd
5. Gold Hill Rd (west of I-77) is an existing 5-lane facility
6. Economic development potential (CATO)
7. Several active and planned development projects along the corridor
8. 6 existing schools along Springfield Pkwy

### Recommendations

Fort Mill Priority List for  
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## N White Street (SC 160)

### 3-Lane Widening

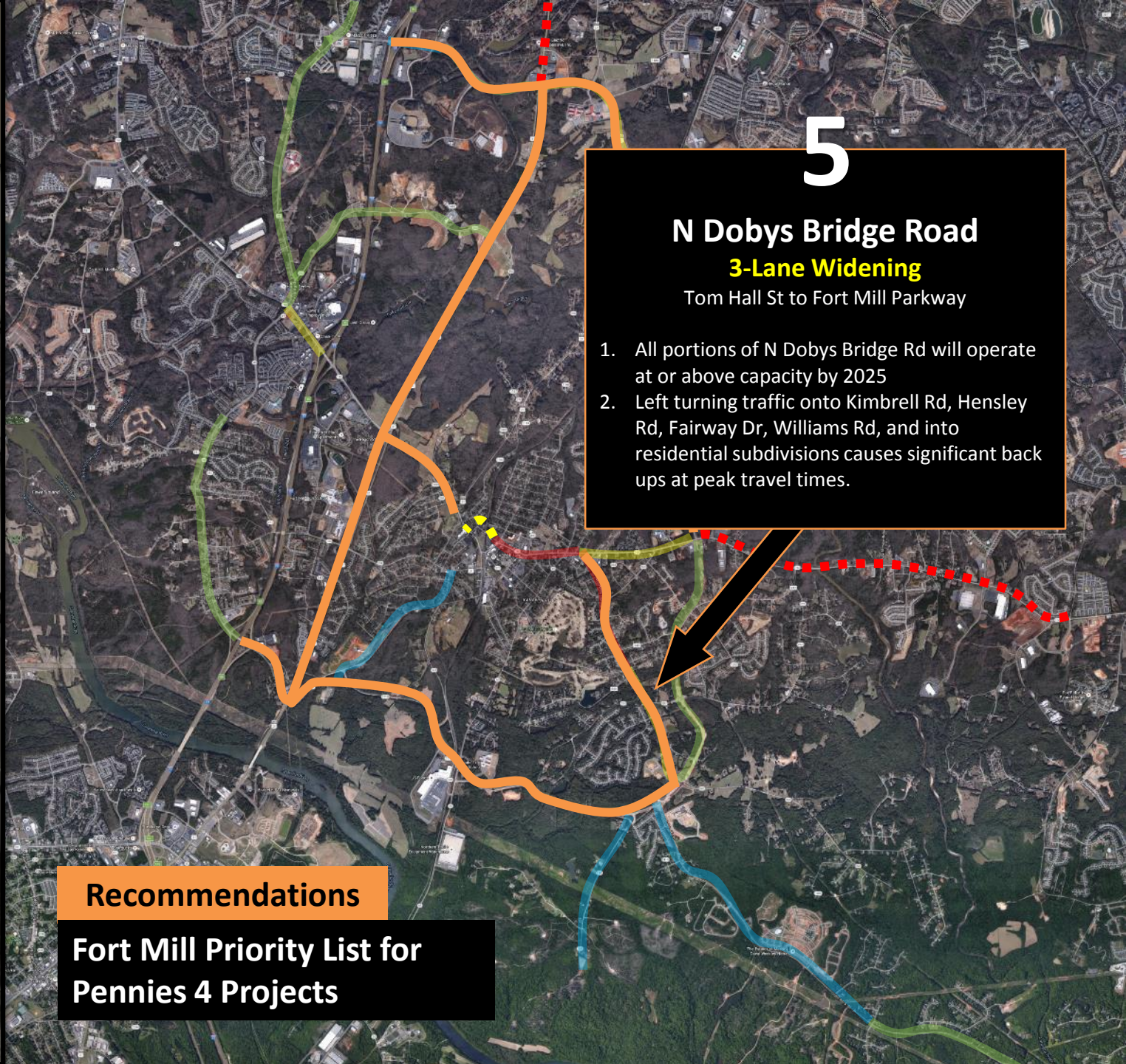
US 21 Bypass to Old Nation Rd

1. Major east-west corridor (SC 160) which connects downtown Fort Mill to US 21 Bypass and I-77
2. This section of 160 currently operates at more than 120% capacity
3. Left turning traffic into residential areas causes significant back ups at peak travel times
4. Economic development potential (Kingsley, SC 160/US 21 intersection)
5. Following the widening of SC 160 north of Gold Hill Rd and east of Springfield Pkwy, this will be the only 2-lane section between the NC state line and Lancaster County line
6. Recommend adding a dedicated right turn lane onto NB US 21 Bypass

### Recommendations

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## N Dobys Bridge Road

### 3-Lane Widening

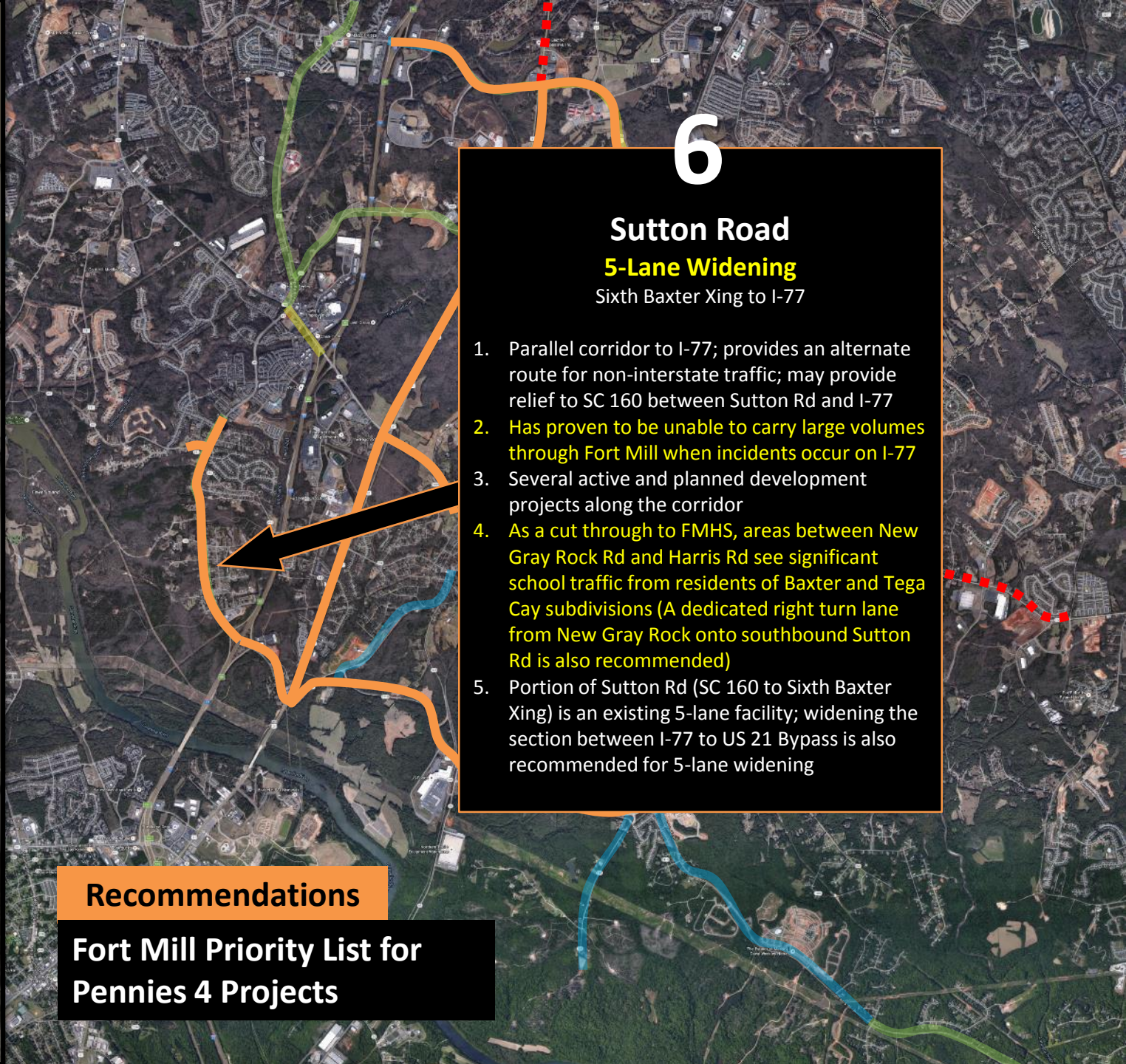
Tom Hall St to Fort Mill Parkway

1. All portions of N Dobys Bridge Rd will operate at or above capacity by 2025
2. Left turning traffic onto Kimbrell Rd, Hensley Rd, Fairway Dr, Williams Rd, and into residential subdivisions causes significant back ups at peak travel times.

## Recommendations

Fort Mill Priority List for  
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## Sutton Road

### 5-Lane Widening

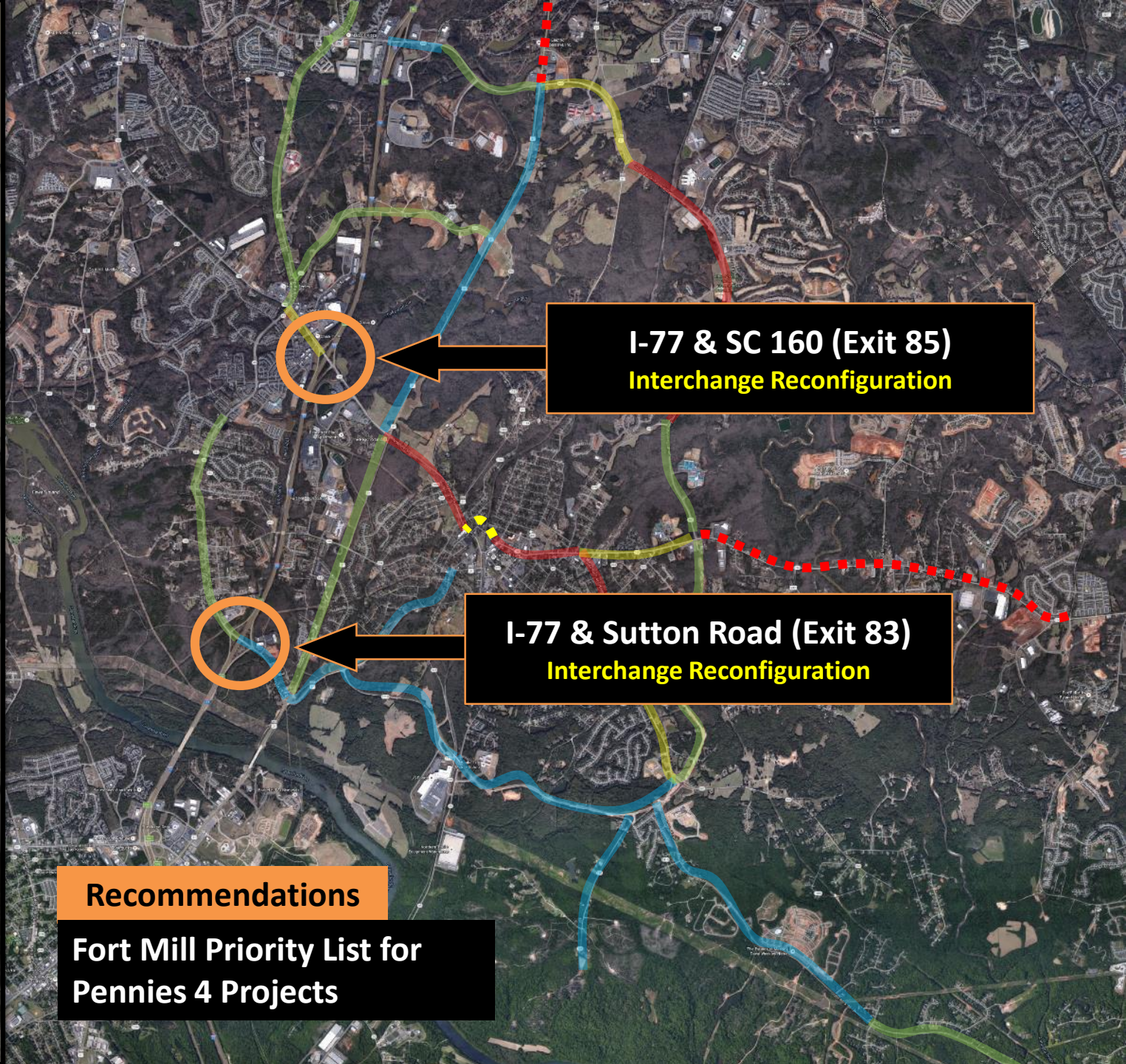
Sixth Baxter Xing to I-77

1. Parallel corridor to I-77; provides an alternate route for non-interstate traffic; may provide relief to SC 160 between Sutton Rd and I-77
2. Has proven to be unable to carry large volumes through Fort Mill when incidents occur on I-77
3. Several active and planned development projects along the corridor
4. As a cut through to FMHS, areas between New Gray Rock Rd and Harris Rd see significant school traffic from residents of Baxter and Tega Cay subdivisions (A dedicated right turn lane from New Gray Rock onto southbound Sutton Rd is also recommended)
5. Portion of Sutton Rd (SC 160 to Sixth Baxter Xing) is an existing 5-lane facility; widening the section between I-77 to US 21 Bypass is also recommended for 5-lane widening

## Recommendations

## Fort Mill Priority List for Pennies 4 Projects





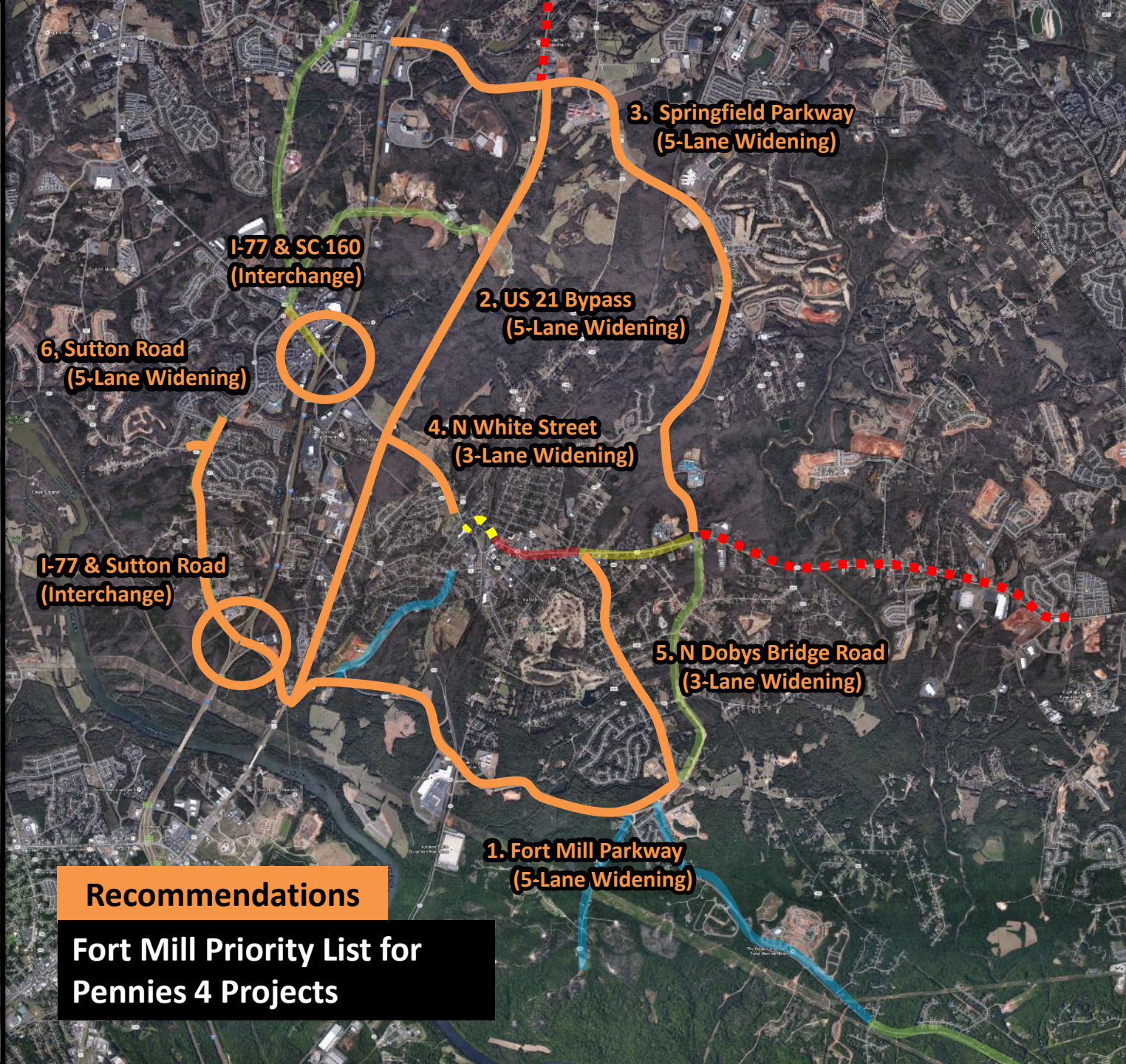
**I-77 & SC 160 (Exit 85)**  
**Interchange Reconfiguration**

**I-77 & Sutton Road (Exit 83)**  
**Interchange Reconfiguration**

**Recommendations**

**Fort Mill Priority List for  
Pennies 4 Projects**





## Recommendations

## Fort Mill Priority List for Pennies 4 Projects





# Other Recommendations

## Other Recommendations

- Pennies 4 projects should incorporate a **COMPLETE STREETS** philosophy, with sidewalks and bike lanes included on all projects.
- Pennies 4 should include a road **MAINTENANCE** component to allow for upgrades and repairs to existing infrastructure.
- Pennies 4 should include a **RIGHT-OF-WAY PRESERVATION** element to protect future road corridors from new development.







# Questions

# Questions

